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RELIABILITY PREDICTION

Model : Q-120B Data:2000-01-27

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	48	0.003700	10	1.776000	46.442
9.1	Resistor-Wirewound Power (RW)	1	0.008500	10	0.085000	2.223
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	10.460
9.1	Resistor-Thermistor (RTH)	2	0.001400	10	0.028000	0.732
10.1	Capacitor-Metal, Plastic (CH)	7	0.000510	10	0.035700	0.934
10.1	Capacitor-Ceramic(Gen.) (CK)	10	0.001700	10	0.170000	4.445
10.1	Capacitor-Aluminum Dry (CE)	17	0.001300	10	0.221000	5.779
6.1	Diode-Gen. Purpose Analog	2	0.003600	8	0.057600	1.506
6.1	Diode-Switching	16	0.000940	8	0.120320	3.146
6.1	Diode-Fast Recovery Power Rectifier	2	0.023000	8	0.368000	9.623
6.1	Diode-Power Rectifier / Schottky Power	6	0.002800	8	0.134400	3.515
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	5	0.003300	8	0.132000	3.452
6.1	Diode-Transient Suppressor/Varistor	2	0.002900	8	0.046400	1.213
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.523
6.3	Transistor-NPN/PNP	4	0.000150	8	0.004800	0.126
6.3	Transistor-Power NPN/PNP	1	0.005700	8	0.045600	1.192
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.098
5.1	Linear Microcircuits	1	0.009500	10	0.095000	2.484
11.1	Transformer Switching	1	0.000610	3	0.001830	0.048
11.2	Coil Fixed inductor or choke	9	0.000032	3	0.000864	0.023
17.1	Single Connections-Reflow solder	342	0.000069	1	0.023598	0.617
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.006
22.1	Fuses	1	0.010000	1	0.010000	0.261
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	1.151
Total Failure rate:					3.824112	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**

MTBF: 261498.62 **hrs**

Approved by: David Wang Compiled by: Kim Tseng